

**ABSTRACT OF THE DISCLOSURE**

A multi coil tubing injector includes a frame structure and a pair of gripper chain drives mounted to the frame structure. The pair of gripper chain drives are disposed in a common plane and spaced apart from each other, and have gripping blocks adapted to engage one or more of at least three differently-sized coil tubing strings to inject the coil tubing strings into, or extract them from, a subterranean well. The coil tubing injector assembly reduces a time required to perform many downhole operations, and therefore reduces a cost of well completion, stimulation and re-completion.